C55.411/3:ODS 232

OBSTRUCTION DATA SHEET

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ODS 232
LINCOLN MUNICIPAL AIRPORT
LINCOLN, NEBRASKA

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OC 232
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OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)

2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).

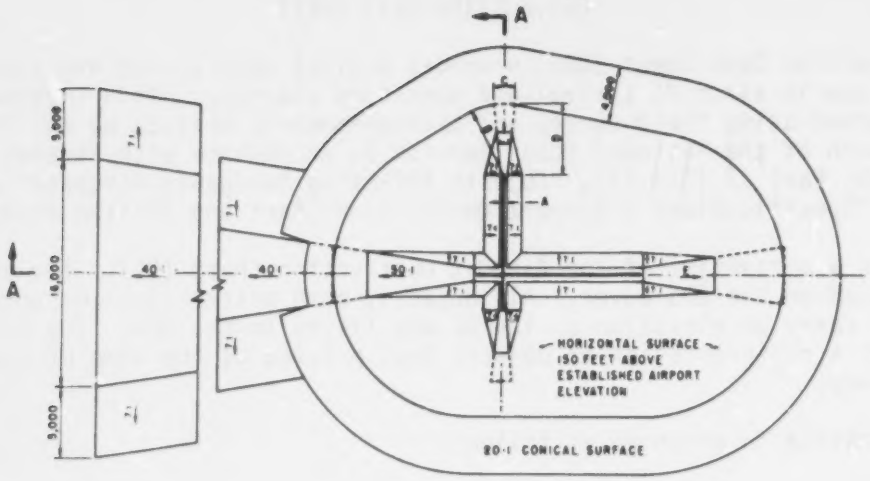
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) ..... Utility runway - visual approach only
A(NP) .... Utility runway - nonprecision instrument approach
B(V) ..... Nonutility runway - visual approach only
C .... Nonutility runway - nonprecision instrument approach with visibility minimums greater than 3/4 mile
D .... Nonutility runway - nonprecision instrument approach with visibility minimums as low as 3/4 mile
PIR ..... Precision instrument runway
SUPLC ... Supplemental C underlying a B(V)

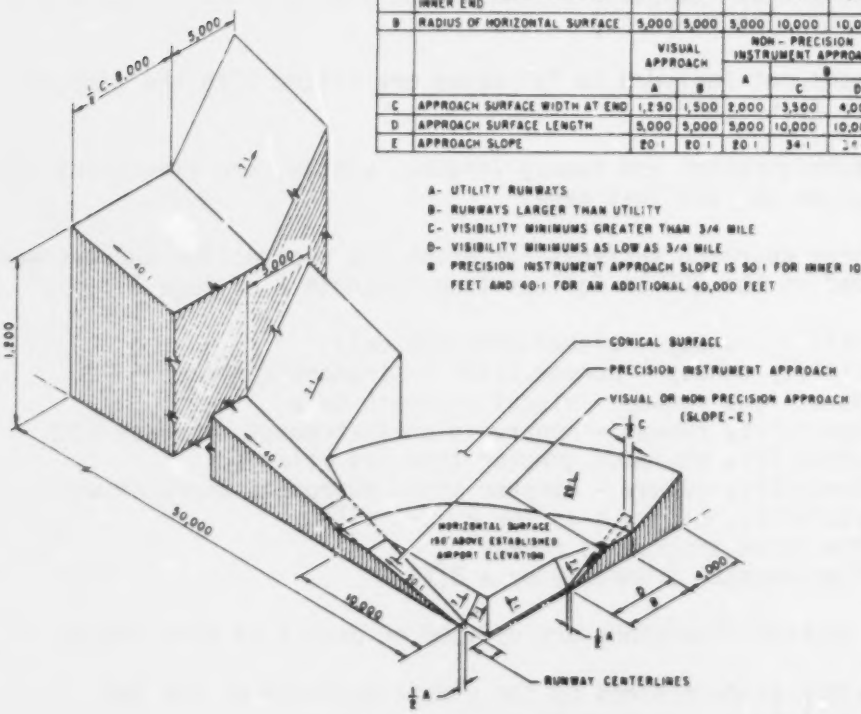
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	B		
					C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	B		
					C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	*
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	*

A- UTILITY RUNWAYS
B- RUNWAYS LARGER THAN UTILITY
C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

X[1] X[2] XXXX/XXXX[3] XXXXXX.XXX[4] XXXXXXX.XXX[4] XXXXXXX[5] XXXX/XXXX[6] XXXXXX.XXX[7] XXXXXXX.XXX[7]

OBJECT	LAT	LONG	A[8]	ELEV[9]	AGL[10]	HAR[11]	HAT[11]	HAA[11]	DEND[12]	DTHR[12]	DCLN[12]	PNTR[13]
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX
XXXXXXXXXXX	XXXXXX.XXX	XXXXXXX.XXX	XX	XXXX	XXXX	XXX	XXX	XXX	XXXXX	XXXXX	XXXX	XXXX

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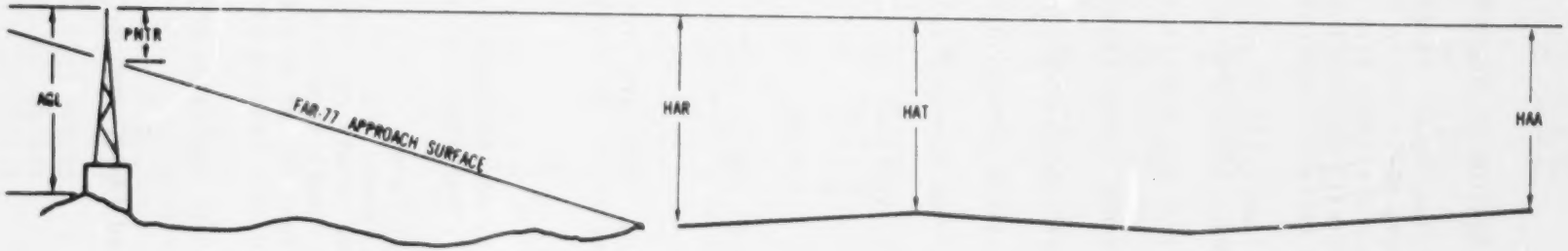
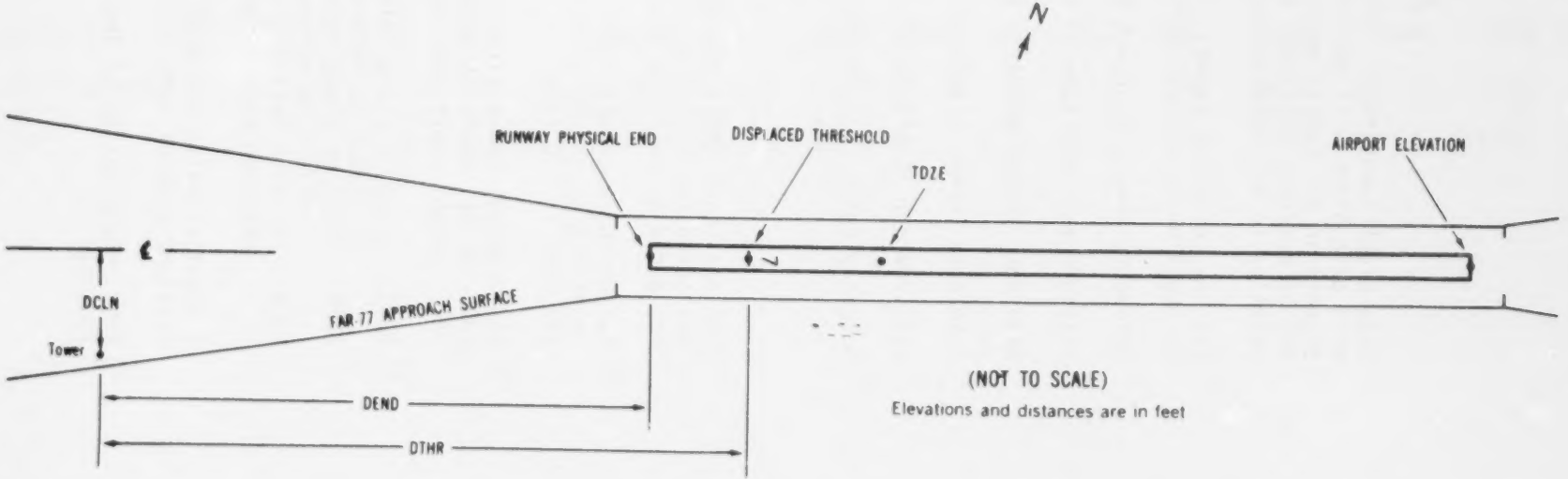




(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

[1] Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.

[2] For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)

[3] Reference runway approach physical end elevation/touchdown zone elevation

[4] Latitude and longitude of reference runway approach physical end

[5] Reference runway geodetic azimuth reckoned clockwise from south

[6] Reference runway displaced threshold elevation/touchdown zone elevation

[7] Latitude and longitude of reference runway displaced threshold

[8] Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20

[9] Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.

[10] Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ±10 feet.

[11] HAA - Height above airport
HAR - Height above reference runway approach physical end
HAT - Height above reference runway touchdown zone elevation

[12] DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end
DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold
DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.

[13] PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0232

AIRPORT ELEVATION 1214

14 C 1198/1198 405202.298N 09646 9.757W 3250149

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR

*** N O O B S T R U C T I O N S ***

32 SUPLC 1177/ 405052.497N 09645 5.474W 1450231 1178/1192 405055.991N 09645 8.690W

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
FENCE	405039.19	0964500.07	1A	1175		-2	-17	-39	1342	1773	432L	-36
LIGHT STANDARD	405035.00	0964454.04	1A	1204		27	12	-10	1955	2386	294L	-25
LIGHT STANDARD	405034.84	0964442.75	1A	1236		59	44	22	2465	2897	408R	-8

17L C 1214/1214 405137.867N 09645 1.663W 0001655

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL WINDSOCK	405103.29	0964458.60	1A	1200		-14	-14	-14	-3498		253L	12
RAILROAD	405156.18	0964501.43	1A	1241		27	27	27	1854		9L	-22
TREE	405201.20	0964455.89	1A	1275		61	61	61	2364		432L	-3

OC0232

AIRPORT ELEVATION 1214

35R SUPLC 1172/1195 405043.530N 09645 2.015W 1801655

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
											253R	12
OL WINDSOCK	405103.29	0964458.60	1A	1200		28	5	-14	-2001		151R	-4
FENCE	405039.19	0964500.07	1A	1175		3	-20	-39	439		115L	0
LIGHT STANDARD	405035.01	0964503.56	1A	1191		19	-4	-23	863		134R	-1
LIGHT STANDARD	405034.98	0964500.33	1A	1191		19	-4	-23	865		301R	-42
TRANSMISSION TOWER	405007.79	0964458.34	1A	1230		58	35	16	3616			

17R PIR 1195/1195 405146.769N 0964540.959W 0001646

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
											392R	11
OL WINDSOCK	404943.45	0964546.85	1A	1182		-13	-13	-32	-12483		314R	3
RADAR TARGET	404944.14	0964545.83	1A	1173		-22	-22	-41	-12412		295L	3
RADAR TARGET	404944.14	0964537.91	1A	1173		-22	-22	-41	-12409		517R	12
ROD ON OL TRANSMISSOMTR	404951.15	0964548.43	1A	1175		-20	-20	-39	-11703		400R	54
OL GLIDE SLOPE	404952.16	0964546.89	1A	1216		21	21	2	-11601		460R	14
ROD ON OL TRANSMISSOMTR	404953.56	0964547.67	1A	1175		-20	-20	-39	-11459		300R	6
RADAR TARGET	405040.99	0964545.28	1A	1176		-19	-19	-38	-6659		299L	7
RADAR TARGET	405041.19	0964537.49	1A	1177		-18	-18	-37	-6635		500R	7
WINDSOCK	405041.93	0964547.88	1A	1177		-18	-18	-37	-6564		399L	38
OL GLIDE SLOPE	405135.88	0964535.83	1A	1230		35	35	16	-1100		306R	5
RADAR TARGET	405141.85	0964544.97	1A	1199		4	4	-15	-499		302L	5
RADAR TARGET	405141.88	0964537.05	1A	1199		4	4	-15	-493		0L	-22
OL LOCALIZER	405201.95	0964540.86	1A	1200		5	5	-14	1536			

OC0232

AIRPORT ELEVATION 1214

35L PIR 1175/1175 404939.303N 0964541.777W 1801645

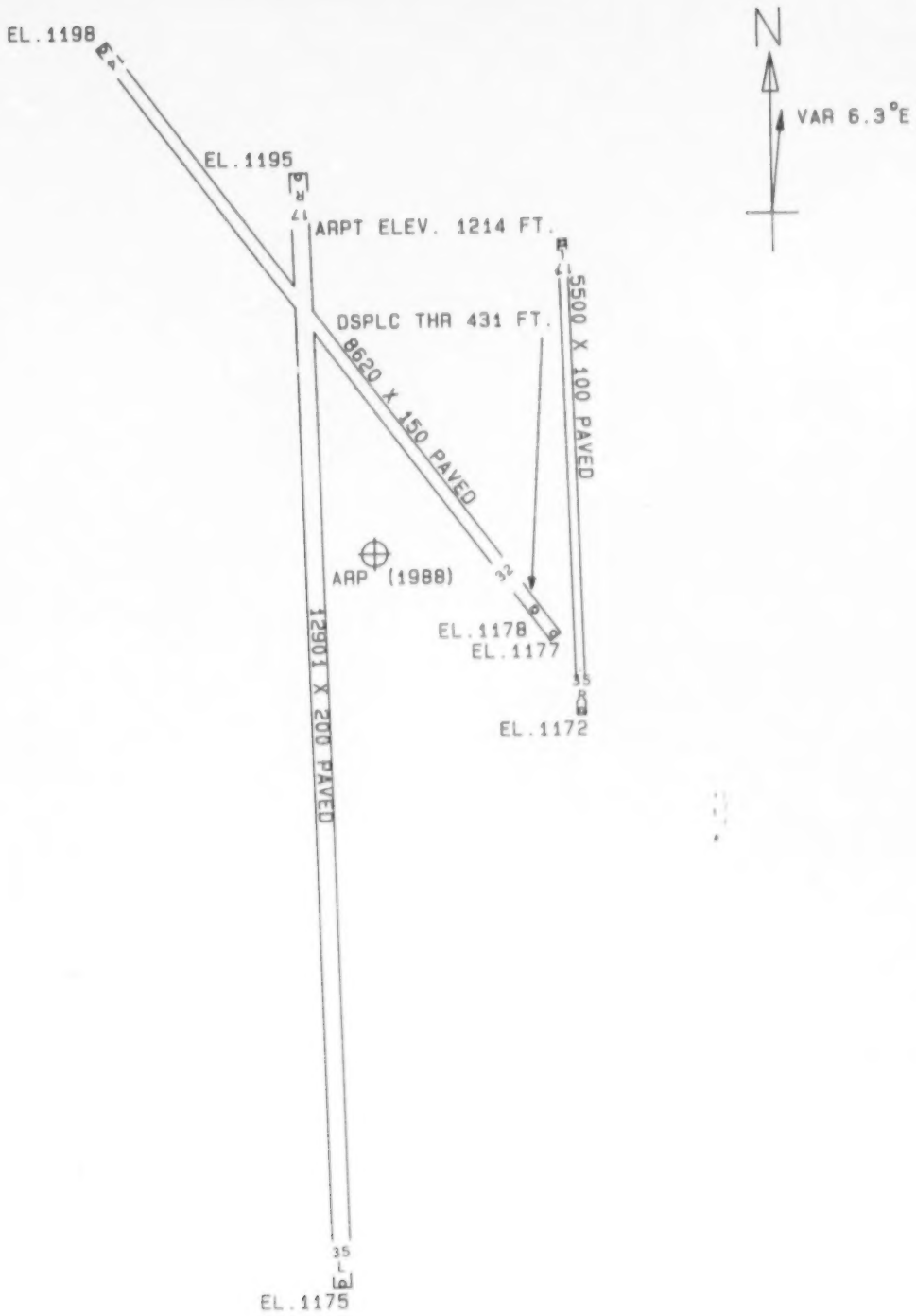
OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
RADAR TARGET	405141.88	0964537.05	1A	1199		24	24	-15	-12407		302R	5
RADAR TARGET	405141.85	0964544.97	1A	1199		24	24	-15	-12401		306L	5
OL GLIDE SLOPE	405135.88	0964535.83	1A	1230		55	55	16	-11801		399R	38
WINDSOCK	405041.93	0964547.88	1A	1177		2	2	-37	-6336		500L	7
RADAR TARGET	405041.19	0964537.49	1A	1177		2	2	-37	-6265		299R	7
RADAR TARGET	405040.99	0964545.28	1A	1176		1	1	-38	-6241		300L	6
ROD ON OL TRANSMISSOMTR	404953.56	0964547.67	1A	1175		0	0	-39	-1441		460L	14
OL GLIDE SLOPE	404952.16	0964546.89	1A	1216		41	41	2	-1300		400L	54
ROD ON OL TRANSMISSOMTR	404951.15	0964548.43	1A	1175		0	0	-39	-1197		517L	12
RADAR TARGET	404944.14	0964537.91	1A	1173		-2	-2	-41	-491		295R	3
RADAR TARGET	404944.14	0964545.83	1A	1173		-2	-2	-41	-488		314L	3
OL WINDSOCK	404943.45	0964546.85	1A	1182		7	7	-32	-417		392L	11
OL ON LOCALIZER	404932.26	0964541.82	1A	1178		3	3	-36	713		0R	-7
ANTENNA ON BUILDING	404931.35	0964545.03	1A	1177		2	2	-37	806		246L	-10
TREE	404927.59	0964533.90	1A	1189		14	14	-25	1183		612R	-6
TREE	404926.80	0964547.76	1A	1196		21	21	-18	1267		454L	0
POLE	404915.26	0964540.54	1A	1215		40	40	1	2433		107R	-5
TREE	404905.90	0964529.88	1A	1252		77	77	38	3376		931R	13
TREE	404902.56	0964534.39	1A	1254		79	79	40	3715		586R	9
TREE	404901.31	0964553.20	1A	1251		76	76	37	3850		860L	3
ROD ON OL MAST	404901.13	0964533.09	1A	1280		105	105	66	3860		687R	32
TREE	404856.11	0964535.69	1A	1260		85	85	46	4369		490R	2
TREE	404855.69	0964541.11	1A	1267		92	92	53	4413		73R	8

OC0232

AIRPORT ELEVATION 1214

ARP 405102.819N 0964532.124W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
ANTENNA ON OL CONTROL TR	405053.64	0964525.67	1A	1280		66	145 36	1053
ANEMOMETER	405053.91	0964549.22	1A	1192		-22	229 14	1594
ANTENNA ON OL ANEMOMETER	405051.98	0964551.10	1A	1207		-7	226 45	1825
OL ON BUILDING	405046.95	0964548.68	1A	1182		-32	212 6	2049
LIGHT STANDARD	405038.42	0964508.62	1A	1198		-16	137 30	3059
OL AIRPORT BEACON ON TANK	405033.40	0964518.50	1A	1311		97	154 19	3156
OL BUILDING	405106.81	0964613.48	1A	1241		27	270 56	3203
ANTENNA ON HANGAR	405106.72	0964450.18	1A	1261		47	76 43	3247
OL BUILDING	405129.52	0964613.41	1A	1245		31	304 7	4167
ANTENNA ON OL ASR	405026.53	0964610.81	1B	1229		15	212 42	4726
TRANSMISSION TOWER	405008.19	0964527.23	1A	1205		-9	169 49	5542
TRANSMISSION TOWER	405008.25	0964558.42	1A	1210		-4	193 48	5881
POLE	404934.80	0964613.84	1B	1259		45	193 30	9467
TRANSMISSION TOWER	404935.26	0964632.15	1B	1326		112	201 13	9990
TRANSMISSION TOWER	404934.92	0964646.84	1B	1344		130	206 33	10588
TREE	404915.89	0964529.71	1A	1220		6	172 43	10823
TREE	404914.90	0964556.55	1A	1229		15	183 27	11082
POLE	404910.61	0964605.09	1A	1259		45	186 17	11636
OL TANK	405130.35	0964759.95	1B	1413		199	277 30	11697
TREE	404854.00	0964526.72	1A	1282		68	171 52	13043
ANTENNA ON OL RADIO TOWER	404930.77	0964249.02	2A	1453		239	120 18	15619



TOUCHDOWN ZONE RUNWAY	ELEVATION
14	1198
32	1192
35R	1195
17L	1214
35L	1175
17R	1195

LINCOLN MUNICIPAL AIRPORT

LINCOLN, NEBRASKA

(NOT TO SCALE)